

Please add the following new claims:

--49. Apparatus for synthesizing molecular structures in situ comprising:

- a) an array of test sites each site containing precursor molecules to be reacted; and
- b) each test site containing electrodes coupled to a voltage source for inducing a reaction

to synthesize molecules in a respective test site.

50. The apparatus of claim 51 wherein the array and electrodes are formed in integrated structures.

51. A method for synthesizing a plurality of different known molecular structures on an array of test sites comprising:

- a) providing an array of test sites;
- b) providing a source of chemical reactants disposed adjacent the test sites;
- c) providing electrodes associated with respective test sites; and
- d) applying a potential to a respective electrode to synthesize said different known

molecular structures at said different known sites in the array.--

REMARKS

This application is a direct continuation application of pending Application Serial No. 08/725,976, filed on November 4, 1996, which is a continuation of Application Serial No. 08/146,504, filed on November 1, 1993, now issued as U.S. Patent No. 5,605,662. This application is being filed to copy claims 13-15 of United States Patent No. 5,653,939. Those claims are presented as newly added claims 49-51, herein. Claims 49-51 are presented in an identical wording

as presented in the '939 patent. These claims are being copied now to preserve Applicant's rights under Section 135. Applicants will present their Statement Under 37 CFR 1.608(b) with the filing of the Sequence Listing and Information Disclosure Statement.

Respectfully submitted,

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